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## SYSTEM, METHOD AND APPARATUS FOR OPTIMIZING POWER DELIVERY AND SIGNAL ROUTING IN PRINTED CIRCUIT BOARD DESIGN

## ABSTRACT OF THE DISCLOSURE

A system, method and apparatus for providing a printed circuit board having optimized power delivery planes and signal routing regions are disclosed. aspect, the present disclosure teaches a printed circuit board having two or more cores coupled together using a prepreg sheet having selected regions of increased permittivity. In combining the cores with the prepreg sheet, the regions of increased permittivity are preferably aliqued with power delivery planes defined between respective cores. By increasing the permittivity within the power delivery planes, the greater the reduction in area of the cores needed for power delivery and the greater the area retained on the cores for providing signal routing. As a result, a printed circuit board incorporating teachings of the present disclosure may support more advanced and complex information handling system implementations.

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